## Claims:

- A method of inhibiting the growth of gastrointestinal tumors comprising the steps of orally administering to an individual with one or more gastrointestinal
  tumors, a formulation comprising polymeric microspheres encapsulating a drug composition comprising an agent selected from the group consisting of sulindac, IL-12 or a combination thereof, wherein said oral administration of the encapsulated agent is effective in inhibiting the growth of the one or more gastrointestinal tumors.
- 10 2. The method of claim 1, wherein the polymer is a polyanhydride.
  - 3. The method of claim 1, wherein the polyanhydride is selected from the group consisting of polylactic acid, polylactide-co-glycolide, polycaprolactone and poly(fumaric-co-sebacic anhydride).

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- 4. The method of claim 1, wherein the polymeric microspheres are prepared by the phase inversion method.
- 5. The method of claim 1, wherein the polymeric microspheres are prepared by the hot melt method.
  - 6. The method of claim 1, wherein the amount of sulindac administered is about 100-400 mg/dose.
- 7. The method of claim 1, wherein the amount of IL-12 administered is about 100-300 ng/kg.
  - 8. The method of claim 1, wherein the gastrointestinal tumor is a colorectal tumor.

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9. The method of claim 1, wherein the polymer of the polymeric microspheres is polylactic acid or poly(fumaric-co-sebacic acid) and the encapsulated agent is

sulindac.

10. The method of claim 1, wherein the polymer of the polymeric microspheres is polylactic and the encapsulated agent is IL-12.

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- 11. The method of claim 1, wherein the polymeric microspheres are administered to the individual in combination with a treatment selected from the group consisting of surgery, radiation, chemotherapy and immunotherapy.
- 10 12. A method of preventing the development of gastrointestinal tumors comprising the steps of orally administering to an individual a formulation comprising polymeric microspheres encapsulating a drug composition comprising an agent selected from the group consisting of sulindac, IL-12 or a combination thereof, wherein said oral administration of the formulation is effective in preventing the development of gastrointestinal tumors.
  - 13. The method of claim 12, wherein the polymer of the polymeric microspheres comprises a polyanhydride.
- 20 14. The method of claim 13, wherein the polyanhydride is selected from the group consisting of polylactic acid, polylactide-co-glycolide, polycaprolactone and poly(fumaric-co-sebacic anhydride).
- 15. The method of claim 12, wherein the polymeric microspheres are prepared by the phase inversion method.
  - 16. The method of claim 12, wherein the polymeric microspheres are prepared by the hot melt method.
- The method of claim 12, wherein the amount of sulindac administered is about 100-400 mg/dose.

- 18. The method of claim 12, wherein the amount of IL-12 administered is about 100-300 ng/kg.
- 5 19. The method of claim 12, wherein the gastrointestinal tumor is a colorectal tumor.

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- 20. The method of claim 12, wherein the polymer in the polymeric microspheres is polylactic acid or poly(fumaric-co-sebacic acid) and the encapsulated agent is sulindac.
- 21. The method of claim 12, wherein the polymer in the polymeric microspheres is polylactic acid and the encapsulated agent is IL-12.
- 15 22. The method of claim 12, the polymeric microspheres are administered in combination with a treatment selected from the group consisting of surgery, radiation, chemotherapy and immunotherapy.
- A composition comprising polyanhydride microspheres, wherein the
  microspheres encapsulate an agent selected from the group consisting of sulindac,
  IL-12 or a combination thereof.
- The composition of claim 23, wherein the polyanhydride is selected from the group consisting of polylactic acid, polylactide-co-glycolide, polycaprolactone and
  poly(fumaric-co-sebacic anhydride).
  - 25. The composition of claim 24, wherein the polyanhydride is polylactic acid or poly (fumaric-co-sebacic acid) and the encapsulated agent is sulindac.
- 30 26. The composition of claim 24, wherein the polyanhydride is polylactic acid and the encapsulated agent is IL-12.